

SD02591 T Mobile Crown Castle Mary Lane ASA

PDS2014- MUP-90-047W2 Alternate Sites Analysis

Project Site

The project site is located on a vacant land parcel located at the top of Mary Lane. Site elevation is approximately 825 feet above mean sea level (AMSL). The target coverage areas are the rural residential areas to the north, east, south and west the coverage gap T Mobile is seeking to cover is roughly 1 mile or 5,500 feet in diameter with the proposed location at the closest feasible point to the center. This application proposes to remove an old sky blue monopole with radomes and install a new faux tree to accommodate both AT&T and T Mobile. Moving the site location south or lowering the minimum antenna height below 52' greatly decreases the coverage to the north. This site will eliminate 2 towers in the general area. First the existing blue color pole on the parcel and second the existing T Mobile site SD06591 approved as PDS2004-3300-04-026 shown as Alt #2 to be removed.

Alternate Sites within Two Miles of the Project Site we not evaluated due to the size of the coverage objective being less than 1 mile in diameter. There are no commercial or industrial zones located within the area lacking coverage. See last map page 2 of this document. All areas within the desired coverage area are residential, SR-1 & SR2.

Alternative location that were evaluated on the same parcel as proposed:

- A. Sprint's 45' mono-palm that hold a total of 3 antennas, mono-palms are not suitable for colocation due to the single frond cluster and structural integrity, the tower was recently re-enforced for Sprint's last antenna modification and would not support T Mobiles antenna system.
- B. Cricket's 50' mono-palm that hold a total of 3 antennas, mono-palms are not suitable for colocation due to the single frond cluster and structural integrity.
- C. The 50' light blue steel monopole that this application proposes to replace. Due to the design being the least desirable from an appearance standpoint County Staff would not support the addition of T Mobile's antenna arrays to this monopole.

Alternative location in the surrounding area:

- 1- The Rincon del Diablo Municipal Water District, there are two small water tanks located on the neighboring parcel to the east and another 100 yards to the north. Due to the height of the tanks being roughly 20-24' and recessed into the existing slope these tanks are not viable locations to have any coverage impact at all.
- 2- MUP 04-026 June 12, 2006 T Mobile site SD06591 San Pasqual Valley Road, this facility is being removed due to the property owners not renewing the lease. This proposed site is replacing this facility. Property Contact info: Steel Valley, LLC, Attention David House, 1589 N. Main

Street, Orange, CA 92867

- 3- 2069 Heights Ct, abandoned Nextel site with a 35' Monopalm roughly $\frac{3}{4}$ of a mile NW of the proposed location. This site was reviewed and would only cover the most NW corner are of the coverage gap and would require a second site further east to meet the coverage are of interest.
- 4- Small cells along Mary Ln, Hwy 78 or San Pasqual Valley road- at the request of staff small cells or right of way installations we discussed and evaluated. Due to wireless facilities having multiple technologies as GSM, UMTS and LTE the small cell's attached to utility poles can only provide single technologies and LTE is not available at this time. So this option was not considered

The below Google Earth image shows the proposed location along with T Mobile's existing site location surrounding the proposed site on Mary Ln. The insert shows a close up of the neighboring water tank facilities, both of which are much to low to be viable.

